## TECHNICAL MEMORANDUM

### Utah Coal Regulatory Program

#### September 13, 2005

TO: Internal File

FROM: Stephen J. Demczak, Environmental Scientist III/Engineering, Team Lead

RE: Full Extraction Pillar 1<sup>st</sup> South, Consolidation Coal Company, Emery Deep Mine,

C/015/015, Task ID #2321

#### **SUMMARY:**

The permittee has submitted an amendment due to full pillar extraction in the 1<sup>st</sup> South panel. This will be the first time that Consolidation Coal has planned subsidence. Consolidation Coal Company owns the surface property. There are no building or surface structures above the 1<sup>st</sup> South panel.

#### **TECHNICAL ANALYSIS:**



Regulatory Requirements: 30 CFR 783.12; R645-301-521.

#### **Analysis:**

The permit area will not change. The 1<sup>st</sup> South Panel was developed several years ago. The permittee wishes to re-enter the 1<sup>st</sup> South section and pull pillars.

#### **Findings:**

The permittee has met the minimum requirements of this section.

# MAPS, PLANS, AND CROSS SECTIONS OF RESOURCE FORMATION

 $Regulatory\ Reference:\ 30\ CFR\ 783.24,\ 783.25;\ R645-301-323,\ \ -301-411,\ -301-521,\ -301-622,\ -301-722,\ -301-731.$ 

#### **Analysis:**

•	
	Affected Area Boundary ps
	No Change.
	Coal Resource and Geologic Information ps
	No Change.
	Existing Structures and Facilities ps
	No change.
	Existing Surface Configuration ps
	No change.
	Mine Workings ps
	When pillars are removed, the permittee will make changes to the mine map.
	Permit Area Boundary ps
	No change.

## Surface and Subsurface Manmade Features

This map has been updated to reflect the stream buffer zones and area of extraction in  $1^{\rm st}$  South.

Surface and Subsurface Ownership

No Change.

#### **Findings:**

The permittee has met the minimum requirements of this section.

### **OPERATION PLAN**

## MINING OPERATIONS AND CILITIES

Regulatory Reference: 30 CFR 784.2, 784.11; R645-301-231, -301-526, -301-528.

#### **Analysis:**

There are no facilities above the 1<sup>st</sup> South Panel.

#### **Findings:**

The permittee has met the minimum requirements of this section.

## EXISTING FRUCTURES:

Regulatory Reference: 30 CFR 784.12; R645-301-526.

#### **Analysis:**

No existing structures are above the 1<sup>st</sup> South panel.

#### **Findings:**

The permittee has met the minimum requirements of this section.



Regulatory Reference: 30 CFR 817.59; R645-301-522.

#### **Analysis:**

The coal recovery should increase by approximately 15 to 20 percent. The present pillar splitting plan estimates a 73% coal extraction.

#### **Findings:**

The permittee has met the minimum requirements of this section.

#### SUBSIDENCE CONTROL PLAN

Regulatory Reference: 30 CFR 784.20, 817.121, 817.122; R645-301-521, -301-525, -301-724.

#### **Analysis:**

# Renewable Resources vey

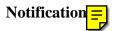
There will be no loss of renewable resources. The surface is currently wildlife habitat. The permittee will repair all cracks or damage that could harm humans or wildlife.

# Subsidence Control = n

The permittee has committed in taking pictures at the subsidence monitoring points before and after pillar extraction.

# Performance Standards For Subsidence

The permittee owns the surface lands above the 1<sup>st</sup> South panel. The area is wildlife habitat.



No notification is necessary since the land is owned by the permittee.

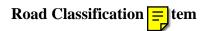
#### **Findings:**

The permittee has met the minimum requirements of this section.

#### ROAD SYSTEMS AND OTHER TRANSPORTATION FACILITIES

Regulatory Reference: 30 CFR Sec. 784.24, 817.150, 817.151; R645-301-521, -301-527, -301-534, -301-732.

#### **Analysis:**



No roads are in this area.

#### **Findings:**

The permittee has met the minimum requirements of this section.

### SUPPORT FACILITIES AND UTILITY = STALLATIONS

Regulatory Reference: 30 CFR Sec. 784.30, 817.180, 817.181; R645-301-526.

#### **Analysis:**

No surface facilities are above 1<sup>st</sup> South Panel.

### **Findings:**

The permittee has met the minimum requirements of this section.

### **RECOMMENDATIONS:**

The permittee has met the minimum requirements and this amendment is recommended for approval.

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